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Date

*October 15, 2003*

*Lawrence Teague*  
Lawrence Teague

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Mark R. Holl et al.  
Application No. : 09/688,055  
Filed : October 13, 2000  
For : LIQUID ANALYSIS CARTRIDGE

Examiner : Patricia K. Bex  
Art Unit : 1743  
Docket No. : 660117.423C1  
Date : October 15, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

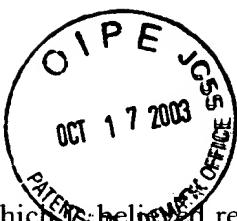
Commissioner for Patents:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, Applicants wish to make known to the U.S. Patent and Trademark Office the references set forth on the attached form PTO-1449 (copies of the cited references are enclosed). As to any reference supplied, Applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by a showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with Applicants' duty to disclose all information they are aware

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of which is believed relevant to the examination of the above-identified application, Applicants believe that their invention is patentable.

For the Examiner's reference, the above-identified application is a continuation of U.S. Application No. 09/080,691 filed May 18, 1998, now abandoned (the "Parent Application"). In the Parent Application, a seven-way restriction requirement was entered as follows:

- Group I: Claims 1-39 and 98-105;
- Group II: Claims 106-117;
- Group III: Claims 40-71;
- Group IV: Claims 72-79;
- Group V: Claims 80-87;
- Group VI: Claims 88-97; and
- Group VII: Claims 118-122.

In the Parent Application, Applicants elected Group I, and the above-identified application was filed to continue prosecution of the Group I subject matter, which subject matter stood finally rejected in the parent application. Applicants filed:

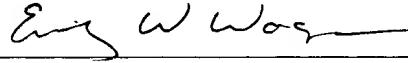
- (1) U.S. Application No. 09/428,801, now U.S. Patent No. 6,537,501, which is a divisional of the Parent Application, on October 28, 1999 to continue prosecution of the Group III subject matter;
- (2) U.S. Application No. 09/428,793, which is a divisional of the Parent Application, on October 28, 1999 to continue prosecution of the Group IV subject matter;
- (3) U.S. Application No. 09/428,840, which is a divisional of the Parent Application, on October 28, 1999 to continue prosecution of the Group V subject matter;
- (4) U.S. Application No. 09/428,839, which is a divisional of the Parent Application, on October 28, 1999 and U.S. Application No. 09/723,823, which is a continuation-in-part of U.S. Application No. 09/428,839, on November 28, 2000 to continue prosecution of the Group VI subject matter;
- (5) U.S. Application No. 09/428,804, which is a divisional of the Parent Application, on October 28, 1999 to continue prosecution of the Group II subject matter; and
- (6) U.S. Application No. 09/428,807, now U.S. Patent No. 6,576,194, which is a divisional of the Parent Application, on October 28, 1999 and U.S. Application No.

10/422,346, which is a continuation of U.S. Application No. 09/428,907, on April 22, 2003 to continue prosecution of the Group VII subject matter (together, the "Related Applications").

The aforesaid references were cited in the Related Applications.

Please acknowledge receipt of this Second Supplemental Information Disclosure Statement and kindly make the cited references of record in the above-identified application. A fee of \$180 is submitted in accordance with 37 C.F.R. § 1.97(c). The Director is authorized to charge any other fees which may be required, or credit any overpayment to Deposit Account No. 19-1090.

Respectfully submitted,  
Seed Intellectual Property Law Group PLLC

  
Emily W. Wagner

Registration No. 50,922

EWW:ljt

Enclosures:

Postcard  
Check for \$180  
Transmittal Form  
Fee Transmittal Form (+1)  
Form PTO-1449 (5 sheets)  
Cited References (71)

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OCT 17 2003  
U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

FORM PTO-1449 (REV.7-80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. 660117.423C1	APPLICATION NO. 09/688,055
<b>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b> (Use several sheets if necessary)			APPLICANTS Mark R. Holl et al.	RECEIVED OCT 21 2003 TC 1700	
			FILING DATE October 13, 2000	GROUP ART UNIT 1743	

### U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3,463,614	08/26/69	Leslie	23	230	
	AB	3,677,710	07/18/72	Hirsch	23	258.5	
	AC	3,811,474	05/21/74	Bauer et al.	137	833	
	AD	4,109,505	08/29/78	Clark et al.	73	1R	
	AE	4,201,470	05/06/80	Ehrly et al.	356	39	
	AF	4,206,650	06/10/80	Berber et al.	73	421R	
	AG	4,473,424	09/25/84	Sorko-Ram	156	268	
	AH	4,484,134	11/20/84	Halloran	324	71.1	
	AI	4,503,385	03/05/85	Haynes	324	71.4	
	AJ	4,533,638	08/06/85	Murányi et al.	435	288	
	AK	4,623,470	11/18/86	Adler	210	787	
	AL	4,766,079	08/23/88	Fele et al.	436	63	

### FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION
					YES      NO
	AM	WO 96/34282	10/31/96	WIPO	
	AN	WO 00/70080	11/23/00	WIPO	
	AO	WO 00/74850	12/14/00	WIPO	
	AP	WO 01/09589	02/08/01	WIPO	
	AQ	WO 02/11887	02/14/02	WIPO	

### OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR		Alonso et al., "Time-dependent rheological behaviour of blood flow at low shear in narrow horizontal tubes," <i>Biorheology</i> 26(2): 229-246, 1989.
AS		

EXAMINER		DATE CONSIDERED
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\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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				FILING DATE October 13, 2000	GROUP ART UNIT 1743	TC 1700

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	4,781,459	11/01/88	Suzuki	356	335	
	BB	4,818,103	04/04/89	Thomas et al.	356	72	
	BC	4,822,568	04/18/89	Tomita	422	73	
	BD	4,938,592	07/03/90	Poole et al.	356	335	
	BE	5,011,022	04/30/91	Palepu et al.	209	155	
	BF	5,182,617	01/26/93	Yoneyama et al.	356	440	
	BG	5,254,201	10/19/93	Konda et al.	156	344	
	BH	5,260,029	11/09/93	Hosoi et al.	422	82.08	
	BI	5,464,752	11/07/95	Kortright et al.	435	7.24	
	BJ	5,530,540	06/25/96	Wyatt et al.	356	246	
	BK	5,579,107	11/26/96	Wright et al.	356	336	
	BL	5,587,070	12/24/96	Pall et al.	210	202	
	BM	5,591,403	01/07/97	Gavin et al.	422	73	
	BN	5,601,234	02/11/97	Larue	239	1	
	BO	5,635,358	06/03/97	Wilding et al.	435	7.2	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
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**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

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FORM PTO-1449  
(REV.7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICESECOND SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)ATTY. DOCKET NO.  
660117.423C1APPLICATION NO.  
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Mark R. Holl et al.FILING DATE  
October 13, 2000GROUP ART UNIT  
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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CA	5,644,395	07/01/97	Folta	356	246	
	CB	5,656,499	08/12/97	Chupp et al.	436	43	
	CC	5,690,895	11/25/97	Matsumoto et al.	422	73	
	CD	5,726,404	03/10/98	Brody	200	81R	
	CE	5,728,351	03/17/98	Carver, Jr.	422	73	
	CF	5,747,349	05/05/98	van den Engh et al.	436	172	
	CG	5,793,485	08/11/98	Gourley	356	318	
	CH	5,840,254	11/24/98	Carver, Jr. et al.	422	68.1	
	CI	5,858,195	01/12/99	Ramsey	204	601	
	CJ	5,868,322	02/09/99	Loucks, Jr. et al.	239	418	
	CK	5,876,675	03/02/99	Kennedy	422	99	
	CL	5,885,470	03/23/99	Parce et al.	216	33	
	CM	5,932,100	08/03/99	Yager et al.	210	634	
	CN	5,945,334	08/31/99	Besemer et al.	435	287.2	
	CO	5,948,684	09/07/99	Weigl et al.	436	52	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
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## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	DA	5,971,158	10/26/99	Yager et al.	209	155	
	DB	5,972,710	10/26/99	Weigl et al.	436	34	
	DC	5,989,402	11/23/99	Chow et al.	204	601	
	DD	5,993,750	11/30/99	Ghosh et al.	422	191	
	DE	6,007,690	12/28/99	Nelson et al.	204	601	
	DF	6,120,666	09/19/00	Jacobson et al.	204	452	
	DG	6,136,272	10/24/00	Weigl et al.	422	82.05	
	DH	6,139,800	10/31/00	Chandler	422	82.08	
	DI	6,156,208	12/05/00	Desjardins et al.	210	695	
	DJ	6,159,739	12/12/00	Weigl et al.	436	52	
	DK	6,167,910	01/02/01	Chow	137	827	
	DL	6,176,962	01/23/01	Soane et al.	156	292	
	DM	6,183,064	02/06/01	Murthy et al.	347	47	
	DN	6,183,829	02/06/01	Daecher et al.	428	64.1	
	DO	6,188,474	02/13/01	Dussault et al	356	246	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
EA		6,221,654	04/24/01	Quake et al.	435	287.3	
EB		6,221,677	04/24/01	Wu et al.	436	518	
EC		6,287,438	09/11/01	Knoll	204	409	
ED		6,319,469	11/20/01	Mian et al.	422	64	
EE		6,432,630	08/13/02	Blankenstein	435	4	
EF		6,436,720	08/20/02	Oberbeck et al.	436	180	
EG		2002/0141902	10/03/02	Ozasa et al.	422	82.09	
EH		2002/0187557	12/12/02	Hobbs et al.	436	161	
EI							
EJ							
EK							
EL							
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